

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Virgil Cotoco Ararao, et al. : Confirmation No.:
Serial No.: : Group Art Unit:
Filed: Nov 24, 2003 : Examiner:
For: SEMICONDUCTOR PACKAGE HEAT
SPREADERS AND FABRICATION
METHODS THEREFOR

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir or Madam:

In accordance with the provisions of 37 C.F.R. 1.56, 1.97, and 1.98 Applicants submit herewith patents, publications, or other information of which they are aware that they believe may be material to the examination of this application, and in respect of which, there may be a duty to disclose. The attention of the Patent and Trademark Office is hereby directed to the attached form PTO-1449. It is respectfully requested that the references be expressly considered during the prosecution of this application and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is submitted:

- under 37 CFR 1.97(b), or
(within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits: whichever occurs last)
- under 37 CFR 1.97(c) together with either a:
 - Statement under 37 CFR 1.97(e), or
 - a \$180.00 fee under 37 CFR 1.17(p), or
(after the CFR 1.97(b) time period, but before final action or notice of allowance, whichever occurs first)
- under 37 CFR 1.97(d) together with a:
 - Statement under 37 CFR 1.97(e), and
 - a \$180.00 fee under 37 CFR 1.17(i).
(filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge the sum of \$0.00 to Deposit Account 50-0374. The Commissioner is hereby authorized to charge payment of any fees required or credit any overpayment, to Deposit Account No. 50-0374 at any time during the pendency of this application.

- A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form-1449, as presently understood by the individual(s) designated in 37 CFR 1.56(c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO-1449 and is enclosed herewith.

Respectfully submitted,

Mikio Ishimaru

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Substitute for form 1449A/PTO

Complete if Known**INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet **1**of **1**

Application Number

Filing Date

First Named Inventor

Art Unit

Examiner Name

Nov 24, 2003

Ararao

Attorney Docket Number

27-006

U. S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|--------------------|-----------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| | 1A | US- 6,301,779 B1 | Oct. 16, 2001 | Azar | |
| | 1B | US- 6,351,385 B1 | Feb. 26, 2002 | Featherstone, III | |
| | 1C | US- 6,385,047 B1 | May 7, 2002 | McCullough et al. | |
| | 1D | US- 6,397,941 B1 | Jun. 4, 2002 | McCullough | |
| | 1E | US- 6,118,177 | Sept. 12, 2000 | Lischner et al. | |
| | 1F | US 6,376,907 B1 | Apr. 23, 2002 | Takano et al. | |
| | 1G | US- | | | |
| | 1H | US- | | | |
| | 1I | US- | | | |
| | 1J | US- | | | |
| | 1K | US- | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
|--------------------|-----------------------|---|--------------------------------|--|---|----------------|
| | | Country Code ³ -Number ⁴ -Kind Code ⁵ (if known) | | | | |
| | 2A | | | | | |
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*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.